Quick Start Guide

SmartStar[®] Solar 60 GOTO Telescope With Solar Filter & Electronic Eyepiece #8506



FEATURES

- 60mm refractor telescope with glass solar filter
- Alt-Azimuth GOTO mount– The Cube[™]-- The only mount of its kind for ultimate rotation
- Dual-axis servomotor with optical encoder for precise GOTO and tracking
- GoToNova[®] 8405 hand controller. The most intuitive controller on the market
- 4 line and 21-character LCD screen with backlit LED for easy to read
- 5,000+ object database plus 128 user-defined objects
- Mega pixel electronic eyepiece for viewing & capturing video and photos with a computer
- Operate on 8 AA batteries (not included) or AC/DC adapter (optional #8417)
- Optional car charger adaptor available (#8418)
- GPS-compatible with optional GPS Module (#8411)
- Sturdy aluminum tripod
- Heavy duty backpack
- 1 year limited warranty

PACKAGE CONTENTS

- SmartStar[®] Cube[™] –E telescope mount
- 60mm refractor telescope with removable glass solar filter
- GoToNova[®] 8405 Hand Controller
- Controller Cable
- 90° diagonal

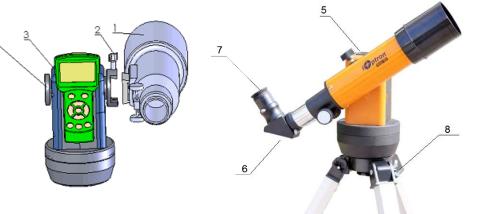
- 25mm eyepieces
- 1.3 mega pixel CMOS electronic eyepiece
- USB cable
- Tripod
- Backpack bag

ONLINE CONTENTS (click under "Support" menu button) www.iOptron.com

- Full manual (you can refer to the full manual for more details on set-up and operation).
- Tips for operating
- Reviews and feedback from other customers
- Optional accessories

Assembly Terms

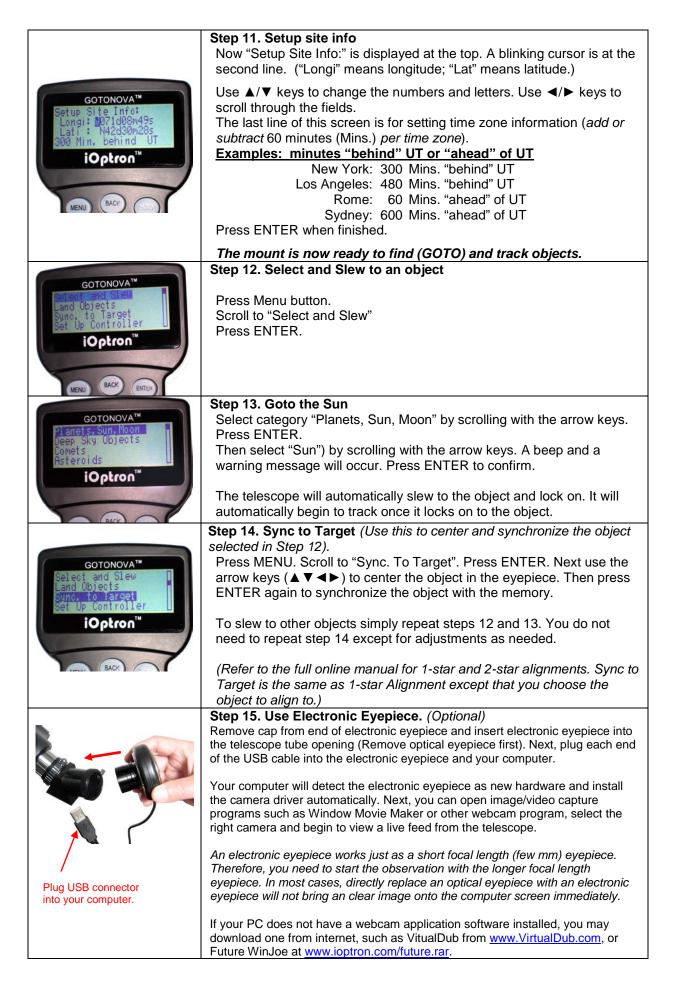
- 1. Telescope tube
- 2. Dovetail lock
- 3. Hand controller
- 4. Altitude lock
- 5. Mount
- 6. Diagonal
- 7. Eyepiece
- 8. Tripod



Quick Start Guide for SmartStar[®] Solar 60 Telescopes

Tripod leg locks	Step 1. Preparing the tripod Unlock the tripod leg locks. Extend tripod legs to full length Lock the leg-locks afterwards.
Accessory Tray Tripod Support Bracket	 Step 1a. Stand the tripod upright by spreading the tripod's legs out uniformly. Push down slightly on the Tripod Support Bracket to lock in place. Attach the Accessory Tray to the Tripod Support Bracket via a screw on the bottom of the tray. Turn the tray until hand tight – don't over tighten the tray.
Thread of Azimuth	Step 2. Attaching the mount Insert Azimuth Lock Screw into the hole on the tripod. (start from underneath) Position center of the mount base onto the threaded screw. Turn the Azimuth Lock Screw to secure the mount.
	Step 3. Installing batteries (not included) Pull off the battery compartment cover (see red arrow). Gently pull the battery holder (shown next) out of the compartment. Be careful not to pull out the attached wires.
	Step 3a. Insert 8 AA batteries (not included) according to the diagram on the holder.** Replace the holder back into the batteries compartment and replace the cover. <u>Note</u> : fit the batteries holder back into the compartment with the attached wires at the bottom right corner (see arrow in the photo). ** Use only fresh batteries; do not mix fresh and old batteries; insufficient battery power may cause error messages; optional AC Adapter and Car Charger accessories are available at www.ioptron.com
	Step 4. Attaching telescope Attach telescope to mount using the dovetail lock knob (#2).

	Step 5. Attaching optics
	Insert 90^o diagonal: Insert diagonal (#6) into the eyepiece side of the telescope. Tighten the thumbscrews to a firm feel only.
90º diagonal	Insert the eyepiece: Remove the supplied 25mm eyepiece (#7) from its container and slide it into the open end of the diagonal. Tighten the thumbscrews to a firm feel only. Remove the round dust cover lid from the end of telescope.
(#6)	
Eyepiece (#7) Focus knob	Use the focus knob to bring objects into focus. You may need to turn the focus knob quite a few turns to focus your telescope for the first time. Always start observing using a lower power eyepiece (such as the 25mm eyepiece) to get a wider field of view. Later on you can change to higher powers. (Eyepieces of higher powers have narrower field of views; it's more difficult to locate objects using high-power eyepieces.)
	Step 6. Connecting hand controller
	Plug hand controller into any one of the HBX (handbox) ports on the mount.
	Turn on power. Now you are ready to observe. Use the 4 Arrow keys $(\blacktriangle \lor \blacktriangleleft \triangleright)$ to rotate the scope Up, Down, Left, and Right. Use the SPEED key to change the slew speed from the slowest (2X) to the fastest (MAX).
	Step 7. Set telescope to PARK POSITION
2) Up	 (1) Position the mount so that the "SOUTH" mark is facing south (A compass may be helpful). (2) The telescope tube should be pointed directly up at the zenith. If it is not perfectly straight then loosen the altitude lock (#4) to adjust telescope.
#4 Alt lock	
6	Step 8. Level the mount Level the mount using the bubble on side of mount by adjusting tripod legs. The bubble should be in the middle of the circle. It is also suggested to use additional levels (such as torpedo levels) to assure precise leveling.
GOTONOVA™	Step 9. Set up controller Press the I/O power switch ON (controller will light up).
Select and Slew Land Objects Sunc. to Target Set Up Controller iOptron TM	Press the MENU key once. Scroll (with the ▲/▼ keys) to "Set Up Controller" Press ENTER.
MENU (BACK) (EHTER)	Scroll to "Set Up Time and Site" in the next screen. Press ENTER.
GOTONOVA TM Set Local Time: 2009-05-04 15:43:40 DaylightTime saving Y iOptron TM	 Step 10. Setup local time Now "Set Local Time:" is displayed at the top. A blinking cursor is at the second line. Use ◄/▶ keys to scroll through the fields. Use ▲/▼ keys to change the numbers. The last field of this screen is for setting "DaylightTime saving". Use ▲/▼ keys to switch between "Y" (yes) and "N" (no). Press ENTER when finished.



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